

### **REMARKS**

This supplemental amendment and response supplements the amendment and response filed September 28, 2004, as discussed during an October 7, 2004 personal interview.

Claims 1-15 are pending. By this amendment, Figure 4 and claims 7 and 12 are amended. Reconsideration and issuance of a Notice of Allowance is respectfully requested.

On page 2 the Office Action objects to the drawings. In particular, the Office Action objects to the drawings because, allegedly, the steps of receiving first and second virtual address information recited in claim 1 are not shown in the figures. Figure 4 is amended to overcome the objection, and withdrawal of the rejection is respectfully requested.

On page 4 the Office Action rejects claim 7 and 12-14 under 35 U.S.C. §102(e) over U.S. Patent 6,272,597 to Fu et al. (hereafter Fu). This rejection is respectfully traversed. The Office Action asserts that Fu teaches a small TLB having a reduced memory port bandwidth and a large TLB having a high memory port bandwidth. Applicant respectfully disagrees.

Claim 7 is amended as discussed during the October 7, 2004 personal interview to recite only one small TLB. This feature is not disclosed or suggested by Fu.

Similarly, method claim 12 is amended to recite providing integer load address information to only one first TLB using a first bandwidth. As noted above, this feature is not disclosed or suggested by Fu. Accordingly, claims 7 and 12 are patentable.

Claims 13 and 14 depend from patentable claim 12, and for this reason and the additional features they recite, claims 13 and 14 are also patentable. Withdrawal of the rejection of claim 7 and 12-14 under 35 U.S.C. §102(e) is respectfully requested.

On page 6 the Office Action rejects claim 8 under 35 U.S.C. §103(a) over Fu in view of EP 0911737 to Maffziger. This rejection is respectfully traversed.

Claim 8 depends from patentable claim 7. For this reason and the additional features it recites, claim 8 is also patentable. Withdrawal of the rejection of claim 8 under 35 U.S.C. §103(a) is respectfully requested.

On page 7 the Office Action rejects claims 11 and 15 under 35 U.S.C. §103(a) over Fu in view of U.S. Patent 6,047,354 to Yoshioka et al. (hereafter Yoshioka). This rejection is respectfully traversed.

Claim 11 depends from patentable claim 7. Claim 15 depends from patentable claim 12. For this reason and the additional features they recite, claims 11 and 15 are also patentable. Withdrawal of the rejection of claims 11 and 15 under 35 U.S.C. §103(a) is respectfully requested.

On page 7 the Office Action rejects claim 10 under 35 U.S.C. §103(a) over Fu in view of U.S. Patent 6,351,797 to Beard et al. This rejection is respectfully traversed.

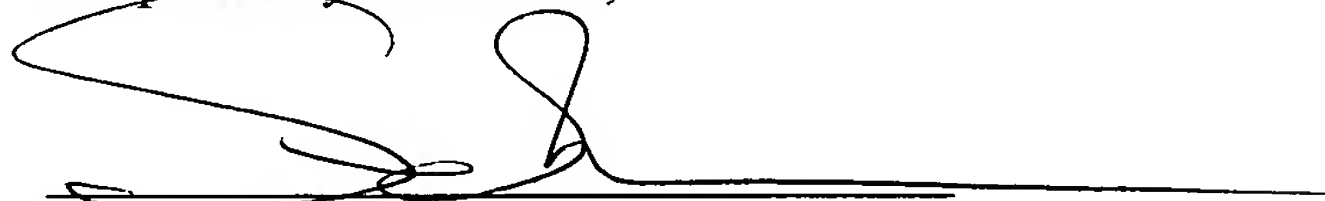
Claim 10 depends from patentable claim 7. For this reason and the additional features it recites, claim 10 is also patentable. Withdrawal of the rejection of claim 10 under 35 U.S.C. §103(a) is respectfully requested.

In view of the above remarks, Applicant respectfully submits that the application is in condition for allowance. Prompt examination and allowance are respectfully requested.

Should the Examiner believe that anything further is desired in order to place the application in even better condition for allowance, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

It is believed that no additional fees are due in connection with this supplemental amendment. However, should additional fees be required in order to consider this supplemental amendment, the commissioner is hereby authorized to charge any such fees to **Deposit Account 08-2025**.

Respectfully submitted,



Sean S. Wooden  
Registration No. 43,997  
**Andrews Kurth LLP**  
1701 Pennsylvania Ave, N.W.  
Suite 300  
Washington, DC 20006  
Tel. (202) 662-2700  
Fax (202) 662-2739

Date: **October 19, 2004**

Attachments: Replacement and annotated sheets for Figure 4

**Amendments to the Drawings:**

The attached sheet of drawings includes changes to Figure 4. This sheet, which includes Figure 4, replaces the original sheet including Figure 4. Figure 4 has been amended by adding the description, "VIRTUAL ADDRESS" to memory ports 1 and 3.

Attachments:            Replacement Sheet  
                              Annotated Sheet Showing Changes

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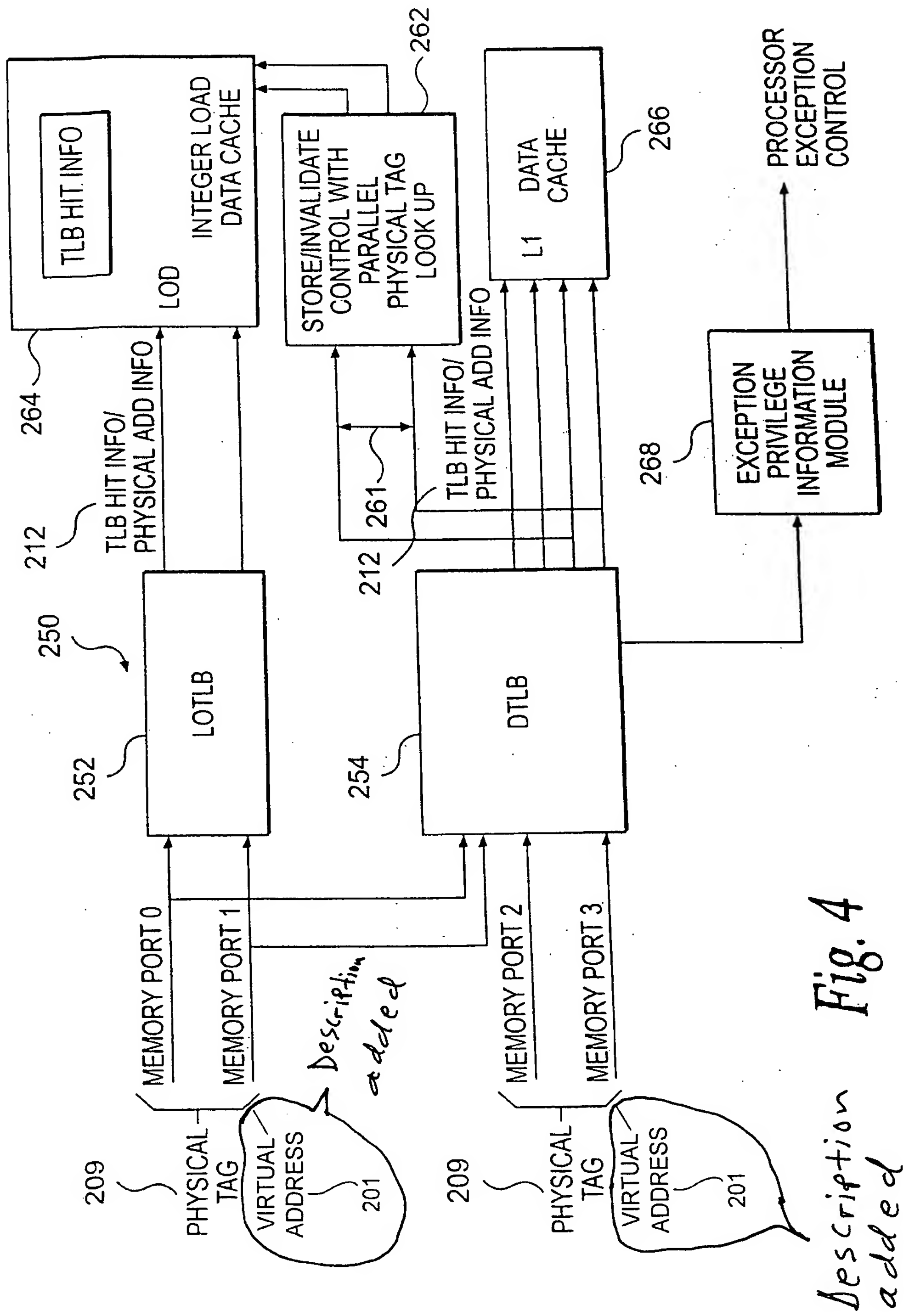


Fig. 4  
Description added